

Behavioral Complications of Dementia

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Pre-Lecture Exam Question 1

- 1. Which of the following complications occur frequently in patients with Alzheimer's Disease and other dementing orders (choose the best single answer)?
- A. Delusions, hallucinations, agitation
- B. Aggressive behavior, impulsive behavior
- C. Wandering, confusion
- D. Anxiety, insomnia, depression
- E. All of the above

- 2. Which of the following statements is NOT true?
- A. Psychosis, agitation, and aggression frequently coexist in AD.
- B. Olfactory hallucinations are pathognomic for AD.
- C. About half of dementia patients exhibit aggressive behavior at some time.
- D. Antipsychotic medications can help in the treatment of agitated behavior.
- E. Antipsychotic medications can help in the treatment of psychotic behavior.

- 3. Which of the following is a true statement about depression and Alzheimer's Disease?
- A. Alzheimer's Disease patients rarely develop comorbid depression.
- B. Depression in Alzheimer's Disease patients should always be attributed to psychological reaction to a loss of cognitive faculties.
- C. Depression in Alzheimer's Disease patients tends to be mild, indolent in progression, and of gradual onset.
- D. Depression in Alzheimer's Disease patients can express itself obscurely, for example through the presence of aggression, paranoid delusions, or refusal to eat.
- E. All of the above.

- 4. NIMH Provisional Diagnostic Criteria for Depression of Alzheimer Disease include all of the following except which statement?
- A. Five depressive symptoms must be present during the same 2 week period in order to diagnose Major Depressive Disorder in an AD patient.
- B. Depressed mood, decreased positive affect or pleasure or social isolation or withdrawal may be present.
- C. Appetite may be disrupted, decreased, or increased.
- D. Sleep may be disrupted.
- E. The symptoms do no occur exclusively during the course of delirium.

- 5. Which of the following is NOT true of the care of dementia patients with behavioral complications?
- A. Nonpharmacologic strategies are important in their management, including behavioral analysis of precipitants and consequences of undesirable behaviors.
- B. Working with families to help them better manage dementia patients' behavioral complications has not been shown to delay nursing home placement.
- C. Sustaining optimal functioning is aided by maintaining a familiar environment, keeping daily activities routine, and communicating in simple sentences.
- Attention to caregiver burnout, stress, or depression is an important part of managing dementia patients with behavioral complications.
- E. All of the above.

Behavioral Problems Associated with Dementia

- Psychosis
- Agitation
- Aggression
- Depression

- Anxiety
- Insomnia
- Wandering
- Disinhibition

Psychosis, Agitation and Aggression

- Frequently co-exist
- More common in mid/late AD
- Physical aggression less common
- Isolated psychotic symptoms frequent
- Agitation in about 50% of dementia patients

<u>Drugs Used for Behavioral Problems</u> <u>Associated with Dementia</u>

- Anticonvulsants
- Antipsychotics
- Anxiolytics
- Beta blockers
- Cholinergic agents
- Selegiline

- Serotonergic Agents
- Trazodone
- Tryptophan
- Estrogen
- Opiates

Antipsychotic Drugs for Patients with Dementia

- Several studies in dementia indicate equal efficacy among agents
- Provide modest improvement of agitation
- May be more effective for psychosis
- Newer atypical agents show promise

Anxiolytics for Patients with Dementia

- Short-acting benzodiazepines preferred
- Minimum effective dose should be used
- Efficacy data unavailable after 8 weeks

Newer Antipsychotic Drugs

- Clozapine
- Risperidone
- Olanzapine
- Sertindole
- Quetiapine
- Ziprasidone

Anticonvulsants

- Preliminary data suggest efficacy for agitation and aggression
- Principal side effects:
 - carbamazepine: ataxia, sedation, confusion, bone marrow suppression
 - valproate (divalproax): gastrointestinal disturbances, ataxia

Combined Dementia and Depression

- Clinical presentation of dementia syndrome of depression
- Acute onset, rapid progression
- Prior depressive episodes
- Brain disorder causing mood disorder
- Psychological reaction to cognitive losses

NIMH - Provisional Diagnostic Criteria for Depression of Alzheimer Disease

- A. Three (or more) of the following symptoms have been present during the same 2-week period and represent a change from previous functioning: at least one of the symptoms is either (1) depressed mood or (2) decreased positive affect or pleasure
 - {Five (or more)...loss of interest or pleasure}
- Note: Do not include symptoms that, in your judgment, are clearly due to a medical condition other than Alzheimer disease, or are a direct result of nonmood related dementia symptoms (e.g., loss of weight due to difficulties with food intake)
 - {...or mood incongruent delusions or hallucinations}

- Clinically significant <u>depressed mood</u> (e.g., depressed, sad, hopeless, discouraged, tearful)
 - {most of the day, nearly every day, as indicated by either subjective report (e.g., feels sad or empty) or observation made by others (e.g., appears tearful)}
- Decreased positive affect or <u>pleasure</u> in response to social contacts and usual activities
 - Markedly diminished interest or pleasure in all, or almost all, activities most of the day, nearly every day (as indicated by either subjective account or observation made by others)}
- Social isolation or withdrawal

- Disruption in appetite
 - {Significant weight loss when not dieting or weight gain...or decrease or increase in appetite nearly every day}
- Disruption in sleep
 - {Insomnia or hypersomnia nearly every day}
- Psychomotor changes (e.g., agitation or retardation)
 - {Psychomotor agitation or retardation nearly every day (observable by others, not merely subjective feelings of restlessness or being slowed down}

- Irritability
- Fatigue or loss of energy
 - {...nearly every day}
- Feelings of worthlessness, hopelessness, or excessive or inappropriate guilt
 - {...(which may be delusional) nearly every day (not merely self-reproach or guilt about being sick)}
- * {Diminished ability to think or concentrate, or indecisiveness, nearly every day...}

- Recurrent thoughts of death, suicidal ideation, plan, attempt
 - {...(not just fear of dying), recurrent suicidal ideation without a specific plan, or a suicide attempt or a specific plan for committing suicide}

- B. All criteria are met for Dementia of the Alzheimer's Type (DSM-IV-TR)
- C. The symptoms cause clinically significant distress or disruption in functioning
 - {or impairment in social, occupational, or other important areas of functioning}
- D. The symptoms do not occur exclusively during the course of a delirium
- E. The symptoms are not due to the direct physiological effects of a substance (e.g., a drug of abuse or a medication)
 - {...or other important areas of functioning}

 F. The symptoms are not better accounted for by other conditions such as Major Depressive Disorder, Bipolar Disorder, Bereavement, Schizophrenia, Schizoaffective Disorder, Psychosis of Alzheimer disease, Anxiety Disorders, or Substance-Related Disorder

Specify if:

- Co-occurring Onset: if onset antedates or cooccurs with the AD symptoms
- Post AD Onset: if onset occurs after AD symptoms

Specify:

- With Psychosis of Alzheimer Disease
- With Other Significant Behavioral Signs or Symptoms
- With Past History of Mood Disorder

Antidepressant Drugs for Demented Patients

- Efficacy in Alzheimer's disease not thoroughly studied
- Clinically used to treat depressive symptoms
- Drugs with minimal anticholinergic effects (e.g., SSRIs) preferred

Choosing Antidepressants

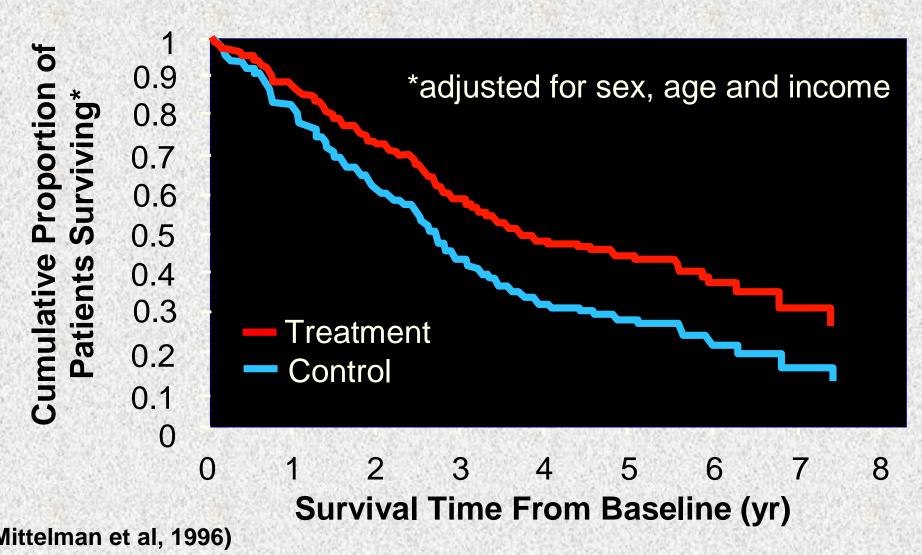
- Clinical trials indicate generally similar efficacy among antidepressants
- Controversy remains whether heterocyclics are better for melancholia
- Choose drugs according to side effect profile
 - e.g., sedating drug for agitated depression
 - Consider possible drug-drug interactions, P450 isoenzymes

Nonpharmacologic Strategies

- Educate caregivers
- Maintain social/family activities as much as possible
- Identify underlying precipitants of troublesome behavior
- Optimize sensory input

- Arrange regular exercise
- Employ familiar surroundings
- Keep daily activities routine
- Use clocks and calendars to maximize orientation

Family Intervention and Nursing Home Placement



General Management Approaches

- Arrange regular exercise
- Try to maintain social/family activities
- Modulate environment optimize stimulation levels
- Employ familiar surroundings
- Keep daily activities routine
- Use clocks, calendars, etc.
- Use simple sentence structure and frequent reminders about content of conversation

Other Caregiver Issues

- Rate of depression as high as 50% in primary caregivers of demented patients
- Physical illness, isolation, anxiety, and burnout common
- Alzheimer's Association offers support and education; chapters in major cities throughout U.S. (800-272-3900)

Post Lecture Exam Question 1

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Answers to Pre & Post Competency Exams

- 1. D
- 2. B
- 3. D
- 4. A
- 5. B